

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/776,521A
Source: IFW/O
Date Processed by STIC: 2-19-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - cPAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



IFWO

RAW SEQUENCE LISTING

DATE: 02/14/2005

PATENT APPLICATION: US/10/776,521A

TIME: 07:39:35

Input Set : E:\SEQLIST (8449-405 Amended).TXT

Output Set: N:\CRF4\02142005\J776521A.raw

4 <110> APPLICANT: Fletchner, Jessica
 5 Prince-Cohane, Kenya
 6 Mehta, Sunil
 7 Slusarewicz, Paul
 8 Andjelic, Sofija
 9 Barber, Brian
 11 <120> TITLE OF INVENTION: HEAT SHOCK PROTEIN-BASED VACCINES AND
 12 IMMUNOTHERAPIES
 14 <130> FILE REFERENCE: 8449-405-999
 16 <140> CURRENT APPLICATION NUMBER: 10/776,521A
 17 <141> CURRENT FILING DATE: 2004-02-12
 19 <150> PRIOR APPLICATION NUMBER: 60/503,417
 20 <151> PRIOR FILING DATE: 2003-09-16
 22 <150> PRIOR APPLICATION NUMBER: 60/463,746
 23 <151> PRIOR FILING DATE: 2003-04-18
 25 <150> PRIOR APPLICATION NUMBER: 60/462,469
 26 <151> PRIOR FILING DATE: 2003-04-11
 28 <150> PRIOR APPLICATION NUMBER: 60/447,142
 29 <151> PRIOR FILING DATE: 2003-02-13
 31 <160> NUMBER OF SEQ ID NOS: 419
 33 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 35 <210> SEQ ID NO: 1
 36 <211> LENGTH: 4
 37 <212> TYPE: PRT
 38 <213> ORGANISM: Malaria
 40 <400> SEQUENCE: 1
 41 Asn Ala Asn Pro
 42 1
 45 <210> SEQ ID NO: 2
 46 <211> LENGTH: 9
 47 <212> TYPE: PRT
 48 <213> ORGANISM: Unknown
 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: HLA-A2 peptide binding motif
 W--> 53 <221> NAME/KEY: VARIANT
 54 <222> LOCATION: 2
 55 <223> OTHER INFORMATION: Xaa = Leu or Met
 W--> 57 <221> VARIANT
 58 <222> LOCATION: 6
 59 <223> OTHER INFORMATION: Xaa = Val or Ile or Leu or Thr
 W--> 61 <221> VARIANT
 62 <222> LOCATION: 9
 63 <223> OTHER INFORMATION: Xaa = Val or Leu

(pg. 6)
 Does Not Comply
 Corrected Diskette Needed
 (pg. 2)

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Input Set : E:\SEQLIST (8449-405 Amended).TXT

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W--> 65 <221> VARIANT
 66 <222> LOCATION: 1,3 , 4, 5, 7, 8
 67 <223> OTHER INFORMATION: Xaa = any amino acid

W--> 69 <400> 2

W--> 70 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 71 1 5
 74 <210> SEQ ID NO: 3
 75 <211> LENGTH: 9
 76 <212> TYPE: PRT
 77 <213> ORGANISM: Unknown
 79 <220> FEATURE:
 80 <223> OTHER INFORMATION: HLA-A2 peptide binding motif

W--> 82 <221> NAME/KEY: VARIANT
 83 <222> LOCATION: 2
 84 <223> OTHER INFORMATION: Xaa = Leu or Met

W--> 86 <221> VARIANT
 87 <222> LOCATION: 1, 3, 4, 5, 6, 7, 8
 88 <223> OTHER INFORMATION: Xaa = any amino acid

W--> 90 <400> 3

W--> 91 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val
 92 1 5
 95 <210> SEQ ID NO: 4
 96 <211> LENGTH: 8
 97 <212> TYPE: PRT
 98 <213> ORGANISM: Unknown
 100 <220> FEATURE:
 101 <223> OTHER INFORMATION: HLA-A2 peptide binding motif

W--> 103 <221> NAME/KEY: VARIANT
 104 <222> LOCATION: 2
 105 <223> OTHER INFORMATION: Xaa = Val or Gln

W--> 107 <221> VARIANT
 108 <222> LOCATION: 1, 3, 4, 5, 6, 7, 8
 109 <223> OTHER INFORMATION: Xaa = any amino acid

W--> 111 <400> 4

W--> 112 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu
 113 1 5
 116 <210> SEQ ID NO: 5
 117 <211> LENGTH: 5
 118 <212> TYPE: PRT
 119 <213> ORGANISM: Unknown
 121 <220> FEATURE:
 122 <223> OTHER INFORMATION: HLA-DR peptide binding motif
 124 <400> SEQUENCE: 5
 125 Gln Lys Arg Ala Ala
 126 1 5
 129 <210> SEQ ID NO: 6
 130 <211> LENGTH: 5
 131 <212> TYPE: PRT
 132 <213> ORGANISM: Unknown

There is no "Xaa" at this location.

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134 <220> FEATURE:
135 <223> OTHER INFORMATION: HLA-DR peptide binding motif
137 <400> SEQUENCE: 6
138 Arg Arg Arg Ala Ala
139 1 5
142 <210> SEQ ID NO: 7
143 <211> LENGTH: 7
144 <212> TYPE: PRT
145 <213> ORGANISM: Unknown
147 <220> FEATURE:
148 <223> OTHER INFORMATION: motif in heptamiric region recognized by heat
149 shock protein
W--> 151 <221> NAME/KEY: VARIANT
152 <222> LOCATION: 2
153 <223> OTHER INFORMATION: Xaa = Trp or any amino acid
W--> 155 <221> VARIANT
156 <222> LOCATION: 1, 3, 5, 7
157 <223> OTHER INFORMATION: Xaa = hydrophobic amino acid residues
W--> 159 <221> VARIANT
160 <222> LOCATION: 4, 6
161 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 163 <400> 7
W--> 164 Xaa Xaa Xaa Xaa Xaa Xaa Xaa
165 1 5
168 <210> SEQ ID NO: 8
169 <211> LENGTH: 7
170 <212> TYPE: PRT
171 <213> ORGANISM: Unknown
173 <220> FEATURE:
174 <223> OTHER INFORMATION: motif in heptamiric region recognized by heat
175 shock protein
W--> 177 <221> NAME/KEY: VARIANT
178 <222> LOCATION: 2
179 <223> OTHER INFORMATION: Xaa = Trp or any amino acid
W--> 181 <221> VARIANT
182 <222> LOCATION: 1, 3, 5, 7,
183 <223> OTHER INFORMATION: Xaa = hydrophobic amino acid residue, particularly
184 tryptophan, leucine or phenylalanine
W--> 186 <221> VARIANT
187 <222> LOCATION: 4, 6
188 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 190 <400> 8
W--> 191 Xaa Xaa Xaa Xaa Xaa Xaa Xaa
192 1 5
195 <210> SEQ ID NO: 9
196 <211> LENGTH: 4
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:

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RAW SEQUENCE LISTING

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Input Set : E:\SEQLIST (8449-405 Amended).TXT

Output Set: N:\CRF4\02142005\J776521A.raw

201 <223> OTHER INFORMATION: mutated heat shock protei peptide
 203 <400> SEQUENCE: 9
 204 Lys Asp Glu Leu
 205 1
 207 <210> SEQ ID NO: 10
 208 <211> LENGTH: 10
 209 <212> TYPE: PRT
 210 <213> ORGANISM: Adeno Virus
 212 <400> SEQUENCE: 10
 213 Ser Gly Pro Ser Asn Thr Pro Pro Glu Ile
 214 1 5 10
 217 <210> SEQ ID NO: 11
 218 <211> LENGTH: 11
 219 <212> TYPE: PRT
 220 <213> ORGANISM: Lymphocytic Choriomeningitis Virus (LCMV)
 222 <400> SEQUENCE: 11
 223 Ser Gly Val Glu Asn Pro Gly Gly Tyr Cys Leu
 224 1 5 10
 227 <210> SEQ ID NO: 12
 228 <211> LENGTH: 10
 229 <212> TYPE: PRT
 230 <213> ORGANISM: Lymphocytic Choriomeningitis Virus (LCMV)
 232 <400> SEQUENCE: 12
 233 Lys Ala Val Tyr Asn Phe Ala Thr Cys Gly
 234 1 5 10
 237 <210> SEQ ID NO: 13
 238 <211> LENGTH: 9
 239 <212> TYPE: PRT
 240 <213> ORGANISM: Lymphocytic Choriomeningitis Virus (LCMV)
 242 <400> SEQUENCE: 13
 243 Arg Pro Gln Ala Ser Gly Val Tyr Met
 244 1 5
 247 <210> SEQ ID NO: 14
 248 <211> LENGTH: 9
 249 <212> TYPE: PRT
 250 <213> ORGANISM: Lymphocytic Choriomeningitis Virus (LCMV)
 252 <400> SEQUENCE: 14
 253 Phe Gln Pro Gln Asn Gly Gln Phe Ile
 254 1 5
 257 <210> SEQ ID NO: 15
 258 <211> LENGTH: 9
 259 <212> TYPE: PRT
 260 <213> ORGANISM: Influenza Virus
 262 <400> SEQUENCE: 15
 263 Ile Glu Gly Gly Trp Thr Gly Met Ile
 264 1 5
 267 <210> SEQ ID NO: 16
 268 <211> LENGTH: 10
 269 <212> TYPE: PRT

RAW SEQUENCE LISTING

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Input Set : E:\SEQLIST (8449-405 Amended).TXT

Output Set: N:\CRF4\02142005\J776521A.raw

270 <213> ORGANISM: Influenza Virus
272 <400> SEQUENCE: 16
273 Thr Tyr Val Ser Val Ser Thr Ser Thr Leu
274 1 5 10
277 <210> SEQ ID NO: 17
278 <211> LENGTH: 8
279 <212> TYPE: PRT
280 <213> ORGANISM: Influenza Virus
282 <400> SEQUENCE: 17
283 Phe Glu Ala Asn Gly Asn Leu Ile
284 1 5
287 <210> SEQ ID NO: 18
288 <211> LENGTH: 9
289 <212> TYPE: PRT
290 <213> ORGANISM: Influenza Virus
292 <400> SEQUENCE: 18
293 Ile Tyr Ser Thr Val Ala Ser Ser Leu
294 1 5
297 <210> SEQ ID NO: 19
298 <211> LENGTH: 9
299 <212> TYPE: PRT
300 <213> ORGANISM: Influenza Virus
302 <400> SEQUENCE: 19
303 Thr Tyr Gln Arg Thr Arg Ala Leu Val
304 1 5
307 <210> SEQ ID NO: 20
308 <211> LENGTH: 9
309 <212> TYPE: PRT
310 <213> ORGANISM: Influenza Virus
312 <400> SEQUENCE: 20
313 Cys Thr Glu Leu Lys Leu Ser Asp Tyr
314 1 5
317 <210> SEQ ID NO: 21
318 <211> LENGTH: 8
319 <212> TYPE: PRT
320 <213> ORGANISM: Influenza Virus
322 <400> SEQUENCE: 21
323 Ser Asp Tyr Glu Gly Arg Leu Ile
324 1 5
327 <210> SEQ ID NO: 22
328 <211> LENGTH: 9
329 <212> TYPE: PRT
330 <213> ORGANISM: Influenza Virus
332 <400> SEQUENCE: 22
333 Glu Glu Gly Ala Ile Val Gly Glu Ile
334 1 5
337 <210> SEQ ID NO: 23
338 <211> LENGTH: 9
339 <212> TYPE: PRT

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/776,521A

DATE: 02/14/2005
TIME: 07:39:36

Input Set : E:\SEQLIST (8449-405 Amended).TXT
Output Set: N:\CRF4\02142005\J776521A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. ~~1,2,3,4,5,6,7,8,9~~
Seq#:3; Xaa Pos. ~~1,2,3,4,5,6,7,8~~
Seq#:4; Xaa Pos. ~~1,2,3,4,5,6,7~~
Seq#:7; Xaa Pos. ~~1,2,3,4,5,6,7~~
Seq#:8; Xaa Pos. ~~1,2,3,4,5,6,7~~
Seq#:295; Xaa Pos. ~~1~~
Seq#:296; Xaa Pos. 3
Seq#:301; Xaa Pos. 2,6
Seq#:348; Xaa Pos. 5

VERIFICATION SUMMARY

DATE: 02/14/2005

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Input Set : E:\SEQLIST (8449-405 Amended).TXT

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L:53 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:57 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:61 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:65 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:69 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:82 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:86 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:90 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:103 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:107 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:111 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:151 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:155 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:159 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:163 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:177 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:181 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:186 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:190 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:3717 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3721 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:295
L:3722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:295 after pos.:0
L:3735 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3739 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:296
L:3740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296 after pos.:0
L:3809 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3813 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:301
L:3814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301 after pos.:0
L:4471 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:4475 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:348
L:4476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:348 after pos.:0